

NWS CHANGE FORM PART A			1. DATE SUBMITTED 10Jul00	
This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).				
2. ORIGINATOR OFFICE NWS W/APO	3. SUBMITTING AUTHORITY Name: Ward Seguin Routing Code: W/APO1	4. COGNIZANT TECHNICAL INDIVIDUAL Name: Walter T Scott Routing Code: W/APO/SE Phone: (301) 713-1570 x 146	5. ORIGINATOR TRACKING NUMBER RC_APO74	
6. SYSTEMS AFFECTED BY CHANGE <input type="checkbox"/> DATA PRODUCTS (Complete Data Products Supplement) <input type="checkbox"/> ASOS <input checked="" type="checkbox"/> AWIPS <input type="checkbox"/> CRS <input type="checkbox"/> NEXRAD <input type="checkbox"/> OTHER (specify) _____			7. WSH TRACKING NUMBER NWS 610 07/10/2000	
8. TITLE OF CHANGE AWIPS Network Control Facility (NCF) Improvements - Phase III				
9. TYPE OF CHANGE <input checked="" type="checkbox"/> HARDWARE <input type="checkbox"/> SOFTWARE <input type="checkbox"/> DOCUMENTATION ONLY		10. SITES AFFECTED (Attach Part B, Page 2, if needed) NCF		
11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.) The ANCF messaging throughput was found to be inadequate during recent "central radar collection" testing which led to the postponement of the "Central Radar Server" demonstration and an extensions of the current NIDS agreements. The AWIPS Network Control Facility will be upgraded to improve the ANCF's message throughput capability, make the ANCF's SBN uplink capability more reliable, and provide needed stability to the ANCF-NWSTG interface.				
12. KNOWN OR PROPOSED SOLUTION (Include source and description of new features or data products.) Reconfigure the current Network Control Facility baseline architecture by: (1) Adding two additional pairs of Message Handling Servers to MS 1 and 2 (installed during Phase II) to make 3 pairs (MS 3 and 4, MS 5 and 6) each pair configured redundant). (2) Moving the Trouble Ticket Database from DS1 and 2 to AS1 and 2 (3) Adding 72 GB of external storage for MS 3 and 4 and 72 GB for MS 5 and 6. (4) Adding 2 racks to the front room equipment which to hold MS3 and 4 with Mass Storage and MS5 and 6 with Mass Storage. (5) Adding DS-6 and pairing it with DS-5 to supplement DS3 and 4 in SBN uplink requirements. (6) Upgrading DS 3,4,5 and 6 from D-370/1 to D380/2. (7) Adding external storage for the DS-5/6 pair. (8) Adding internal disk to Sync CP 1 and 2 to handle NWSTG data flow				
13. ALTERNATE SOLUTIONS N/A				
14. REQUIRED CHANGE DATE 01Aug00	15. RATIONALE FOR REQUIRED CHANGE DATE (Include proposed priority, if known.) This change is required to implement the Central Radar Server tests and to allow termination of the current NIDS contracts. Priority: URGENT - Due to impact to Program Schedule.			
CCB/PMC/CMB DECISION				
16. DECISION AUTHORITY LEVEL	<input type="checkbox"/> CCB LEVEL ONLY	<input type="checkbox"/> PMC or NWS CMB DECISION REQUIRED		
17. CCB LEVEL DECISION Accepted for Engineering Development. (AWCCB Chair, APO engineering, CM)	<input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> RECOMMEND APPROVAL <input type="checkbox"/> DISAPPROVED	SIGNATURE DATE SIGNED 7/10/00		
FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED				
18. PMC OR NWS CMB DECISION	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SIGNATURE DATE SIGNED		

NWS CHANGE FORM PART B		1. ORIGINATOR TRACKING NUMBER RC_APO74	
All RC/ECP submissions must also address the following information. Indicate if any areas are unknown or do not apply. State why information is unknown and when it will be available. Attach extra pages if necessary, referencing each applicable subject.		2. WSH TRACKING NUMBER NWS 610	
FUNDING INFORMATION			
Estimate costs and indicate known sources of funding. (Include travel time, installation time, administrative time, and software development time when applicable.)		3. SOURCE OF FUNDING	4. TOTAL COST TBD
5. DEVELOPMENT COSTS (Estimate development costs) Upgrade of Test NCF facility at PRC			AMOUNT XXXX
6. OPERATIONAL TEST AND EVALUATION COSTS (Estimate test and evaluation costs)			AMOUNT XXXX
7. PRODUCTION COSTS (Include acquisition, kit proofing, spares, delivery, and documentation costs) Purchase, Installation and Checkout cost of hardware. Rework of Systems Drwgs and BOM/Parts Lists		Contract Mod	AMOUNT TBD
8. COMMUNICATIONS SERVICE/CIRCUITS COSTS (Include installation and recurring costs)			AMOUNT XXXX
9. IMPLEMENTATION SUPPORT COSTS (Include travel, installation, and administrative costs)			AMOUNT TBD
9A. LIFE CYCLE SUPPORT COSTS (Less communications service/circuits) Increased Maintenance Costs			AMOUNT TBD
SUPPORTING INFORMATION AND SCHEDULES Provide detailed information needed to implement the requested change.			
10. DEVELOPMENT STATUS/SCHEDULE (Major milestones such as Start, Beta Test, and OT&E) NA		11. PRODUCTION STATUS/SCHEDULE (Major milestones such as Solicitation, Contract Start Date, Delivery Date, Kit Proofing, etc.) NA	
12. IMPLEMENTATION/RETROFIT SCHEDULE NA		13. FACILITY INFORMATION (Attach facility drawings/plans.)	
14. COMMUNICATIONS INSTALLED (Type required, who will order, and associated hardware required; attach Part B, Page 2, if needed.) NA		15. COMMUNICATIONS SERVICE/CIRCUITS TO BE REMOVED None	
16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES (Include person or organization responsible for obtaining each) NA		17. COORDINATION OF CHANGE WITH OTHER CHANGES Documentation delivery to be coordinated with NCF Build out CLIN. (See 18 below)	
18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED (Include part, serial, and document numbers. Attach Part B, Page 2, if needed.) See attach B page 2 - Documents to be delivered as "red-line markups" with formal RC. Final copies to be delivered as part of NCF Buildout CLIN.		19. STAFF RESOURCE IMPACTS (Skills and workload impact on maintainers, operators, and managers.) None	
20. LOGISTICS IMPACTS (Include facilities, maintenance, training, and support equipment impacts.) TBD		21. OPERATIONAL IMPACTS (Include continuity and back up needs and plans.) Portions of the NCF will be down for installation of upgrades. The Upgrades are to be accomplished in segments. The exact sequence of segmented installations is TBD.	
22. ADDITIONAL MAJOR CHANGE ACTIVITIES (Include who will accomplish each of them and staff hours required.) TBD			

NWS CHANGE FORM PART B - PHYSICAL ITEM AND DOCUMENT IMPACT MATRIX SUPPLEMENT							1. ORIGINATOR TRACKING NUMBER RC_APO26		
This information is required prior to publication of Engineering Modification Notes and Software Release Notes. List physical items to be replaced and specify any changes in related documentation. (Submitters should complete this information, if known. WSH will assist.)							2. WSH TRACKING NUMBER		
3. ITEM NAME, CIRCUIT TYPE, SOFTWARE VERSION, OR SITE LOCATION	4. REMOVE REPLACE MODIFY	5. SUPERSEDED ITEM OR CONFIGURATION		6. SUPERSEDING PART NUMBER OR NEW CONFIGURATION	7. DOC TYPE	8. SUPERSEDED DOCUMENT		9. SUPERSEDING DOCUMENT	
		A. PART NUMBER OR CONFIGURATION	B. SERIAL NUMBER(S) OR COMMENTS			A. IDENTIFIER	B. REV	A. IDENTIFIER	B. REV
				BNMWRKNCF.207 Rev 1	Parts List	NA		AWP-000000- 109-0112-3	Rel
					Bill of Material	NWSNCF	1	NWSNCF	2
					NCF Doc	AWP.FDC. NMC-02.00	-	AWP.FDC. NMC-03.00	-
					Assmbly Drwng	AWP-000000- 101-500	A2	AWP-000000- 101-500	A3
					Drwng	AWP-000000- 106-500	A2	AWP-000000- 106-500	A3
					Drwng	AWP-000000- 302-510	A2	AWP-000000- 302-510	A3
					Drwng	AWP-000000- 302-530	A2	AWP-000000- 302-530	A3
					Drwng	AWP-000000- 302-580	A2	AWP-000000- 302-580	A3
					Drwng	AWP-000000- 302-520	A2	AWP-000000- 302-520	A3
					Cbl Lst	AWP-000000- 304-510	A2	AWP-000000- 304-510	A3
					Cbl Lst	AWP-000000- 304-520	A2	AWP-000000- 304-520	A3
					Cbl Lst	AWP-000000- 304-530	A2	AWP-000000- 304-530	A3
					Cbl Lst	AWP-000000- 304-580	A2	AWP-000000- 304-580	A3
					Drwng	AWP-000000- 302-540	A2	AWP-000000- 302-540	A3
					Cbl Lst	AWP-000000- 304-540	A2	AWP-000000- 304-540	A3

NWS CHANGE FORM PART C		1. ORIGINATOR TRACKING NUMBER RC_APO74	
WSH is responsible for Part C, but submitters may complete sections that would help clarify the change requirement or the necessary implementation actions.		2. WSH TRACKING NUMBER NWS 610	
3. CCB COST EVALUATION <div> NWS COST \$ FAA COST \$ DOD COST \$ OTHER AGENCY COST \$ TOTAL COST </div> <div> (SPECIFY)_____ </div>			
4. IMPLEMENTATION DOCUMENTS REQUIRED <div> <input checked="" type="checkbox"/> Engineering Modification Note <input type="checkbox"/> Software Release Notes <input checked="" type="checkbox"/> Other Document (Specify)_____ </div>			
ADDITIONAL IMPLEMENTATION INSTRUCTIONS (e.g., Implementation schedule, parts shipping instructions, equipment disposal procedures, additional documentation required, and status reporting instructions.) Include documentation, data input, notification vehicle, or specific action step required to verify completion of the implementation activity.			
5. IMPLEMENTATION ACTIVITY REQUIRED		6. REQUIRED COMPLETION DATE	7. RESPONSIBLE PERSON AND OFFICE
Install racks for MS 3/ 4 and MS 5/ 6 GFE MHS Servers Install Message Handling Servers Move Trouble Ticket Database Install DS 6 and mass storage Upgrade DS 3,4,5 and 6 Upgrade Sync CP's		TBD 7/24/00	TBD Ed Hiner, 301-713-1570, 125